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87th Annual Meeting

January 13-17, 2008

Washington, DC

TRB 87th Annual Meeting

PARTICIPANTS' GUIDE

PAPER PROCESSING & SESSION DEVELOPMENT

INTERNATIONAL


ASSOCIATED GROUPS

NEWS MEDIA


[Interactive Preliminary Program Available!](#)

Sunday : Workshops

Monday - Thursday: Sessions, Paper, Presentation and Poster. Committee Meetings. Special Events



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES



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87th Annual Meeting - January 13-17, 2008

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TRB Annual Meeting Interactive Program

Welcome to the 87th Annual Meeting Interactive Program, containing a complete listing of all the sessions and committee meetings planned for this January's meeting. Please browse or search the listings using the options below. When you find a function of interest to you click "Add" in the right-hand column to begin creating your own custom Annual Meeting itinerary.

If you have registered in advance for the Annual Meeting, please enter the email address used to register below to allow searches to reveal room information. Please plan to double-check room names using the onsite Final Program since event locations are subject to change.

Your email:

Keyword: [GO](#)

87th Annual Meeting - January 13-17, 2008

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Search Results

Records Found: 192
Word or Phrase: data
[Modify Search Criteria](#)

Click a function title to retrieve details.

No.	Sponsor	Function Title	Location	Time	
E1003	DAWG	Forum on Pavement Performance Data Analysis	S	Saturday, 9:00 AM-6:00 PM	ADD
ABJ95		Visualization for Performance Measurement	M	Saturday, 1:00 PM-5:00 PM	ADD
ABG40		Transportation Research Information Services (TRIS) Database Subcommittee, ABG40(1) (Members Only)	M	Sunday, 8:30 AM-12:00 PM	ADD
402	ABG50	Doctoral Student Research in Transportation Operations	M	Sunday, 8:30 AM-12:00 PM	ADD

Sessions, Workshops, Committee Meetings

Data = 192
Planning = 178

Universe = 1,128

My Program

Created By: edc@berwyned.com

Records Found: 18

Click a function title to retrieve details.

No.	Sponsor	Function Title	Location	Time
118	ADC20	Addressing Data and Integration Issues for U.S. Environmental Protection Agency MOVES Model	H - Georgetown East	Sunday, 8:30 AM-12:00 PM
119	ABJ40	Application of Passenger Travel Data for National, State, and Local Congestion Performance Measurement	H - Jefferson East	Sunday, 8:30 AM-12:00 PM
172	ABJ20	Recommended Revisions to AASHTO Guidelines for Traffic Data Programs	H - Jefferson West	Sunday, 1:30 PM-5:00 PM
	AB000	Policy and Multimodal Groups New Chair Orientation	S - Calvert	Sunday, 4:00 PM-6:30 PM

Click a function title to retrieve details.

No.	Sponsor	Function Title
118	ADC20	Addressing Data and Integration Issues for U.S. Environmental Protection Agency MOVES Model

Joon Byun
Air Quality Modeling Specialist
FHWA Resource Center
410- 962-0069
joon.byun@dot.gov

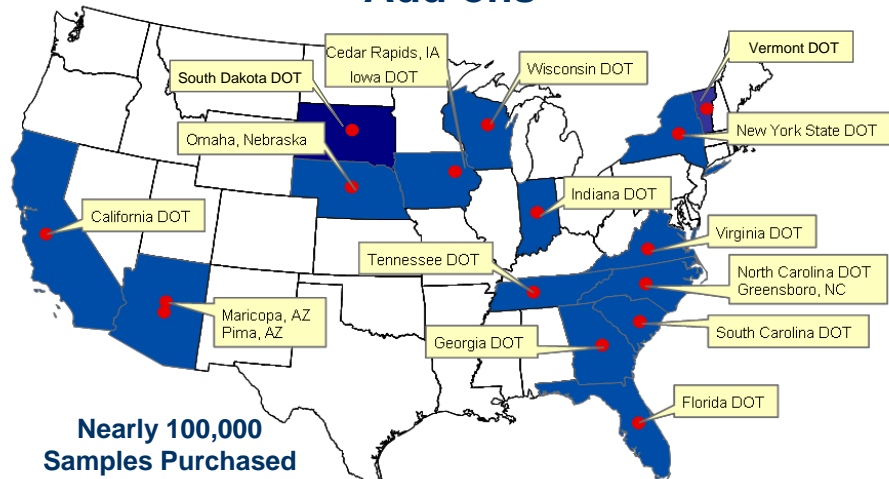
119 ABJ40

Application of Passenger
Travel Data for National,
State, and Local Congestion
Performance Measurement

Heather Contrino
NHTS Project Manager
FHWA Policy Information Office
202-366-5060
Heather.Contrino@dot.gov

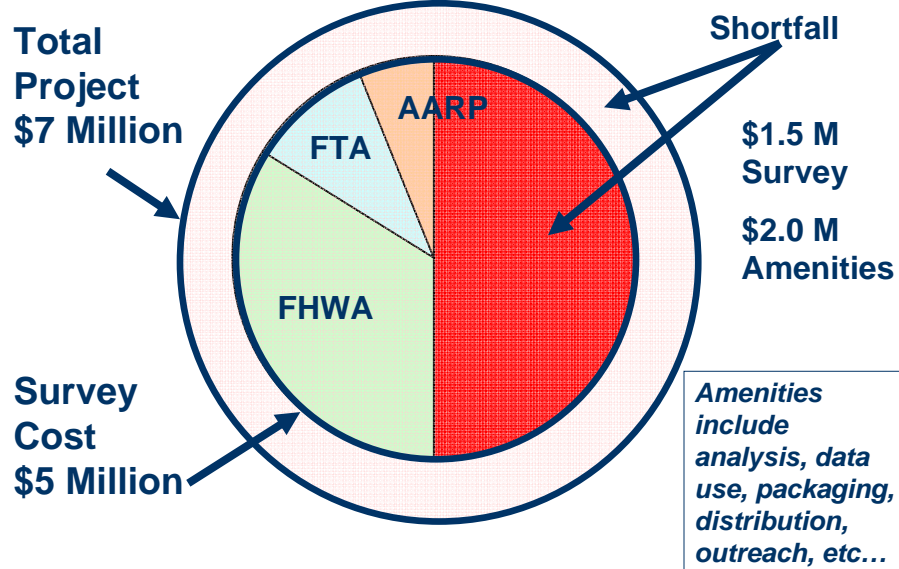
<http://nhts.ornl.gov/>

National Household Travel Survey (NHTS) Add-ons

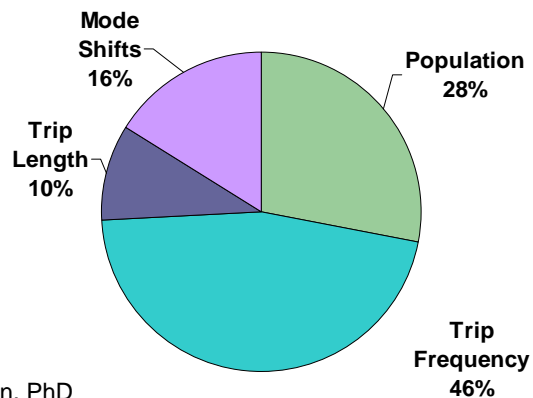


Data Collection begins March 1, 2008

NHTS Funding Status-National Sample



Factors Contributing to US VMT Growth 1977-2001

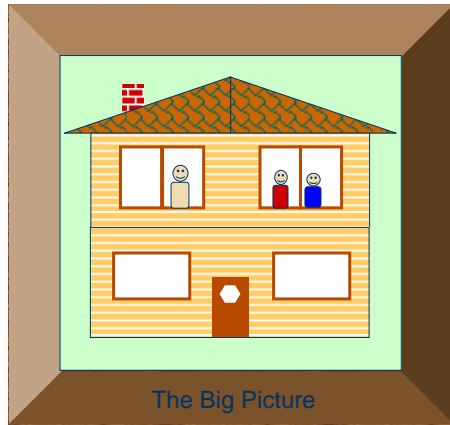


Steven E. Polzin, PhD
CUTR, USF

Source: CUTR analysis of NHTS and NPTS



Integrating Activity & Performance Data



Joseph L. Schofer
Northwestern University

- Data integration adds value, obscures sources
- Integration is more than simultaneous analysis
- Activity view + network view = insights
 - Causality, action guidance
- Data linking strategies
 - Temporal association
 - Macro: general relationships
 - Geographic association
 - Micro: specific relationships
 - Location detail
 - Privacy issues

Using NHTS to Help Evaluate Performance Measures

Understanding the causes of congestion...

- Congestion is not just about the work trip, more than half of am peak travel is not related to work
- The non-work trips are dominated by serve passenger (80% to take children to school) and school trips, but other purposes add more miles during the peak
- Retired people are going to the doctor, people in household with kids are taking them to school, and men are shopping/getting a meal during the peak
- And both higher-income workers and lower-income non-workers are over represented in peak non-work travel

Nancy McGuckin
Travel Behavior Analyst

AB000 Policy and Multimodal
Groups New Chair
Orientation

AW000 Policy, Planning and
Multimodal Groups Chairs
Dinner (Members Only)

2009 Annual Meeting Spotlight Theme Energy & Climatic Change

New for 2008 – paid Exhibits (140
organizations and sold out space)

2008 Annual Meeting

Program Summary	2004	2005	2006	2007	2008
Lectern Sessions	498	470	469	455	453
Poster Sessions	46	65	88	134	114
Workshops	62	62	73	79	86

Paper Summary	2006	2007	2008
Total Number Received	2862	3070	2847
Total Presented	1688 (59%)	1849 (60.2%)	1759 (61.8%)
Papers in Lectern Session	888 (52.6%)	935 (50.5%)	867 (49.3%)
Papers in Poster Session	728 (43.1%)	752 (40.7%)	861 (48.9%)
Papers in Meetings	21 (1.2%)	34 (1.8%)	31 (1.8%)
Papers Otherwise Presented	2 (0.1%)	5 (0.2%)	0 (0%)

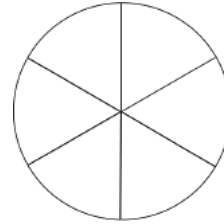
TRB Organizational Structure

Divisions

**A Technical Activities
Groups**

Sections

Committees



B Studies and Special Programs

C Admin and Finance

D Cooperative Research Programs

-- SHRP II

-- Marine Board

Division A Technical Activities **GROUPS**

Policy and Organization (Group B)

Planning and Environment (Group D)

Design and Construct (Group F)

Operations and Maintenance (Group H)

Legal Resources (Group L)

System Users Group (Group N)

Public Transport (Group P)

Rail (Group R)

Freight Systems (Group T)

Aviation (Group V)

Marine (Group W)

AB000: Policy and Organization Group

ABC00: Section - Management and Leadership

ABE00: Section - Transportation Policy

ABG00: Section - Research and Education

ABJ00: Section - Data and Information Systems

AD000: Planning and Environment Group

ADA00: Section - System Policy, Planning

ADB00: Section - Travel Analysis Methods

ADC00: Section - Environment and Energy

ADD00: Section - Social, Economic, and Cultural



TMIPers
Travel Model Improvement Program

The Data Section

11 Committees , 1 Task Force, 2 Subcommittees

ABJ10 National Transportation Data Requirements

ABJ20 Statewide Transportation Data and Info Systems

ABJ25T Task Force on the Traffic Monitoring Conferences

ABJ30 Urban Transportation Data and Info Systems

ABJ35 Highway Traffic Monitoring

ABJ40 Travel Survey Methods

ABJ50 Information Systems and Technology

ABJ60 Geographic Information Science and Applications

ABJ70 Artificial Intelligence and Advanced Computing

ABJ80 Statistical Methodology and Software

ABJ90 Freight Transportation Data

ABJ95 Visualization in Transportation

252 ABJ30

Spectacular Data Mega Session

Poster Session 252

Spectacular Data Mega Session

Monday, January 14, 2008, 9:30 AM - 12:00 PM, Hilton

William L. Eisele, Texas Transportation Institute, presiding

Sponsored by:

Urban Transportation Data and Information Systems Committee (ABJ30)

Data and Information Systems Section (ABJ00)

Travel Survey Methods Committee (ABJ40)

Statewide Transportation Data and Information Systems Committee (ABJ20)

Geographic Information Science and Applications Committee (ABJ60)

Library and Information Science for Transportation Committee (ABG40)

24 Posters

Sensor Locations on a Network to Predict Travel Times (08-0798) - C1

Pitu B. Mirchandani, University of Arizona

Yang He, University of Arizona

Work and Home Location: Possible Role of Social Networks (08-3073) - D10

Nebiyu Yonas Tilahun, University of Minnesota, Twin Cities

David Matthew Levinson, University of Minnesota, Twin Cities

ABJ00

Data and Information
Systems Section Executive
Board (Members Only)

367
ABJ00

Findability of Transportation
Information

ABJ25T

Traffic Monitoring
Conference (NATMEC) Task
Force (Members Only)

ABJ30

Urban Transportation Data
and Information Systems
Committee

Retreat

NYMTC
Search Engines
Invisible Web

Aug. 6-8, 2008

Retreat



Poster Session

Communicating Transportation Concepts to the Public

Monday, January 14, 2008, 2:30 PM - 5:00 PM, Hilton

Marcy S. Schwartz, CH2M Hill, presiding



Sponsored by:

Planning and Environment Group (AD000)

Note: The winners of the "Communicating with John and Jane Public" competition will be presented. The winner will make a short presentation on his or her communication idea.

Designing for Sustainable Transportation and Transit in Winnipeg (P08-1307) - L1

Bjorn Radstrom, Winnipeg Transit, Canada

Jeannette Montufar, University of Manitoba, Canada

Alex Regiec, Winnipeg Transit, Canada

Rachel's Drive ♦ Computer Animation and Video for HOT Lanes (P08-1308) - L2

Melissa Loomis, Washington State Department of Transportation

Jamie Holter, Washington State Department of Transportation

Trent Rickman, Washington State Department of Transportation

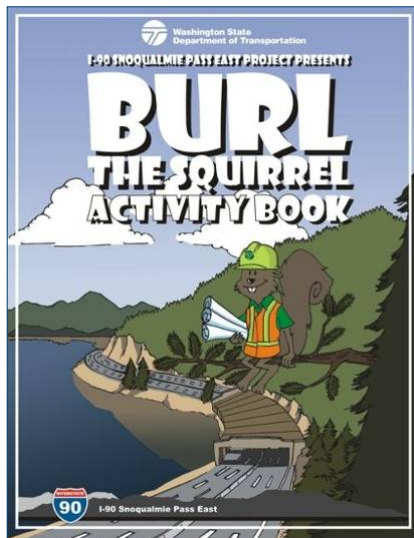
Bob Hamilton, King County Multi-Media

Carol Hunter, Washington State Department of Transportation

Street Capacity Exercise ♦ UnJAM 2025 (P08-1309) - L3

Harrison B. Rue, Thomas Jefferson Planning District

Little Cottonwood Canyon Accident Analysis (P08-1310) - L4



COLORING

TRAFFIC JAMS

Traffic jams are a big problem on Interstate 90, especially on weekends and holidays.



SHARP CURVES

Sharp turns and curves are dangerous and can cause accidents.



CRACKED PAVEMENT

The pavement is 50 years old and cracking. This is causing bumpy roads and unsafe conditions.

PAGE 1

<http://www.wsdot.wa.gov/Projects/I90/burl>

Tuesday - January 15

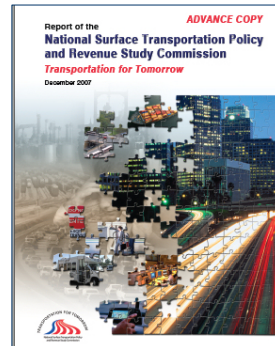
ABJ10 National Transportation Data
Requirements and
Programs Committee

AP000 Transit Caucus

661 Technology Innovations in
ADC20 Monitoring Traffic and Air
Pollution

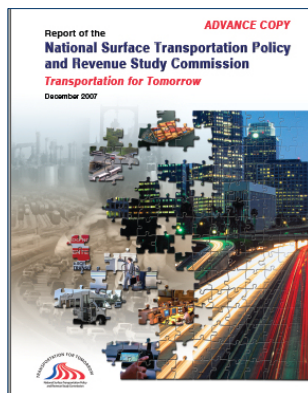
633 Advances on the Urban
ABJ30 Data Front

Retreat



<http://www.transportationfortomorrow.org>

National Surface
TRANSPORTATION POLICY
AND REVENUE STUDY COMMISSION



Where will we be in 50
years?

How will we get there?

What's Next?

Wednesday - January 15

681
ABJ30

Travel Data Users Forum:
How Will the Changing Cost
of Energy Affect Personal
Travel?

E0000 Chairman's Luncheon

David Greene

Chuck Purvis

Nathan Erlbaum

Steve Polzin

David Garder

Going nowhere?

Will high energy prices change U.S. travel?

David L. Greene
Corporate Fellow
Oak Ridge National Laboratory

87th Annual Meeting of the TRB
January 16, 2008
Washington, DC

David Greene, Oak Ridge National Laboratories

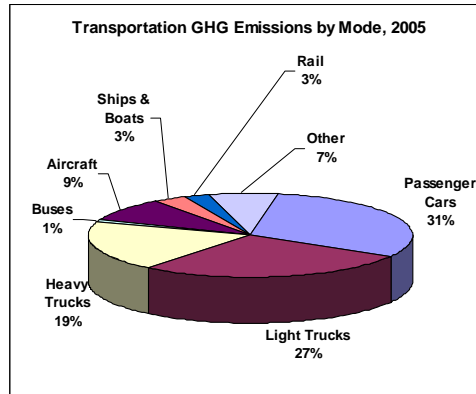
Set the Stage

Economics of oil pricing

World and US oil consumption

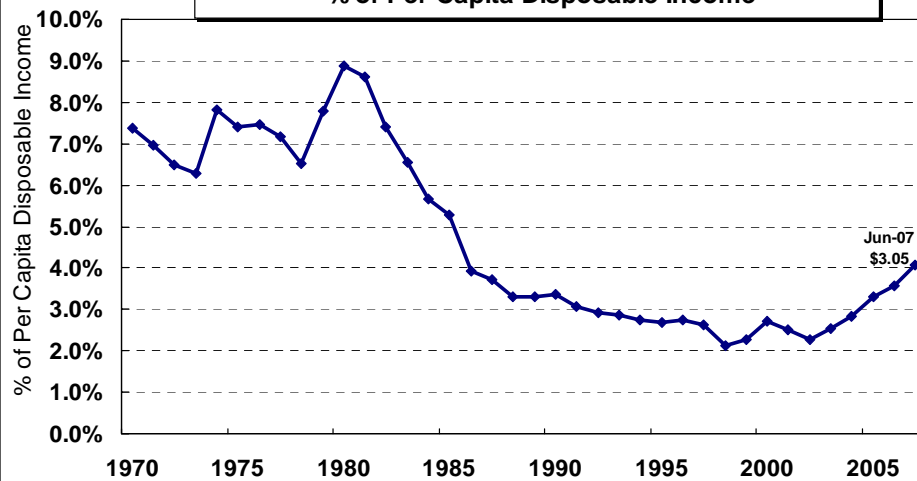
Resources and Reserves

The Carbon Footprint



And real fuel cost as a % of disposable income is lower still.

Real Fuel Cost of Driving a Passenger Car 10,000 Miles
% of Per Capita Disposable Income



BEA, Table 2.1, Personal Income and It's Disposition

[What will we change?]

- Travel
- Energy Efficiency
- Carbon Intensity of Energy
- All of the above?

Data, Energy Costs, Global Warming, and Traveler Behavior: an MPO Perspective

Chuck Purvis

Metropolitan Transportation Commission

Transportation Research Board Annual Meeting

Session #681: Travel Data Users Forum

Wednesday, January 16, 2008

Presentation Overview

Non-Attainment Area MPO Requirements

- Air Quality Conformity Analysis
- Latest Planning Assumptions

California MPO Requirements / Legislation

- California Environmental Quality Act (CEQA)
- California's Global Warming Solutions Act of 2006 (AB32)
- Pavley Bill of 2002 (AB1493)

MTC's Vision 2035 Analysis (Fall 2007)

- Pricing, Land Use, Network Alternatives & Scenarios
- Regional CO₂ Target

Current & Future Data Needs

- NHTS, CEX, revival of RTECS (Residential Trans Energy Consumption Surveys)
- MPO Travel Behavior Surveys

METROPOLITAN TRANSPORTATION COMMISSION

Data Needs to Support Analysis

Vehicle Acquisition Modeling

- Duration Choice Modeling
- When do households choose to replace a household vehicle?
- If gas prices were to escalate, say, to \$5.00 per gallon, would households accelerate their vehicle replacements?

Vehicle Ownership Modeling

- Discrete Choice Models
- How many vehicles does a household choose to own/lease?
- Need for simple, disaggregate choice models for use in planning charrettes, as well as more elaborate model systems

Vehicle Use Modeling

- Model form?
- Need for simple, disaggregate choice models for use in planning charrettes

METROPOLITAN TRANSPORTATION COMMISSION

Energy Price and Travel Behavior

Nathan Erlbaum
NYS Department of Transportation
nerlbaum@dot.state.ny.us
518-457-2967

Recap

- History:
 - Changes come out of discretionary travel
- NHTS 2001
 - Discretionary and maintenance activities are 60+% of the pie
- Travel demand 2004 – date
 - Apparent dampening trend
 - Underlying economic uncertainty?

Recap

- Its not gasoline price
 - No elastic effects identifiable
- Revenue forecasts
 - Over estimate, if based on simple trends
- Capital program expenditures
 - Subject to fuel price escalation and volatility
 - Difficult to forecast
 - Hard to budget for
 - Increasing at a rapid rate

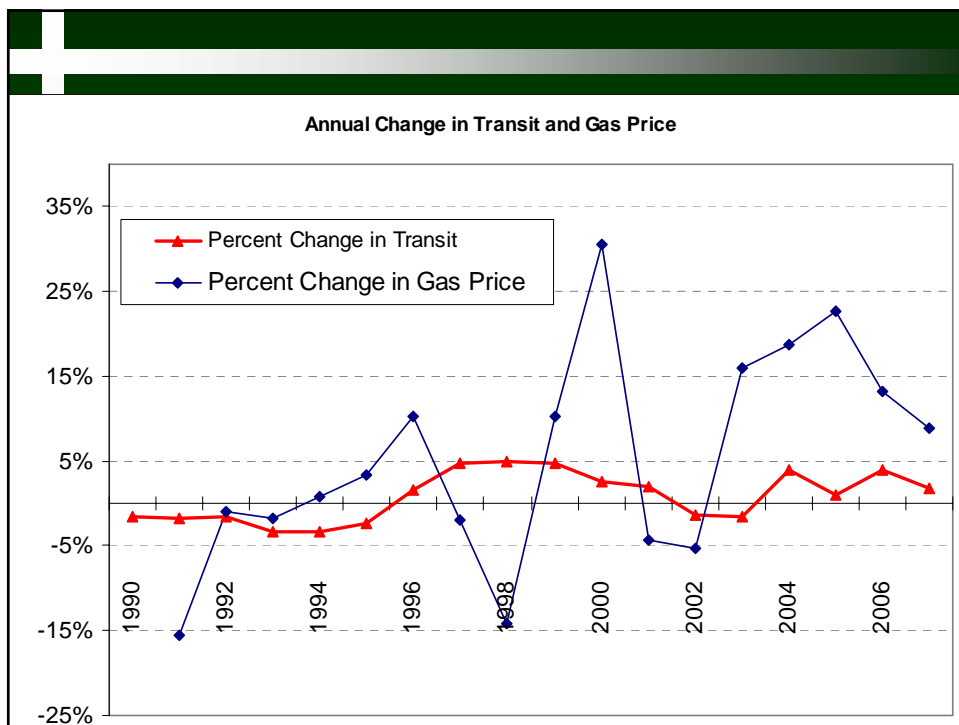
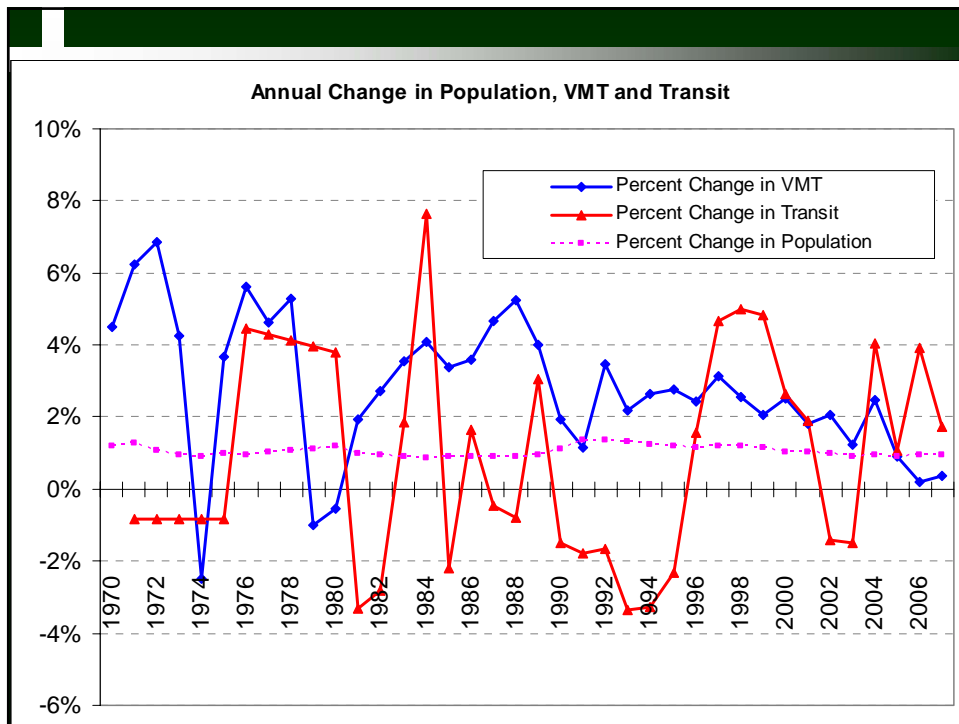
Is Transit Part of the Equation?

Travel Data Users Forum:
How Will the Changing Cost of Energy Affect Personal Travel?

Session 681 Wednesday, January 16, 2008, 10:15 AM - 12:00 PM, Hilton

Steven E. Polzin, PhD
CUTR, USF





Challenges of Determining Fuel Price Impacts

- ◆ Detailed analysis is only possible at local level and then may be impossible due to data/resource constraints.
- ◆ Extremely difficult to factor out economic, service, fare, marketing, demographic or other confounding factors.



What Additional Data Would Help

- ◆ Aggregate transit use data is old
- ◆ APC data can provide more specific trip length data for analysis
- ◆ A basis for normalizing to adjust for local fuel costs, population growth, service supply, fare levels, economic activity, etc.



Can Transit Secure an Efficiency Advantage?

- ◆ New CAFE standards
- ◆ Improving transit efficiency
 - ◆ Vehicle technology and fuel (vehicle life cycle)
 - ◆ Service speed
 - ◆ Service productivity
 - ◆ Matching vehicle/mode to market
 - ◆ Disciplining the provision of amenities



Travel Data Users Forum: How Will the Changing Cost of Energy Affect Personal Travel

View from a Traffic Data Perspective

Presented by: Dave Gardner – Ohio DOT



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Data Collection – Types of Counts



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Data Collection – Types of Counts



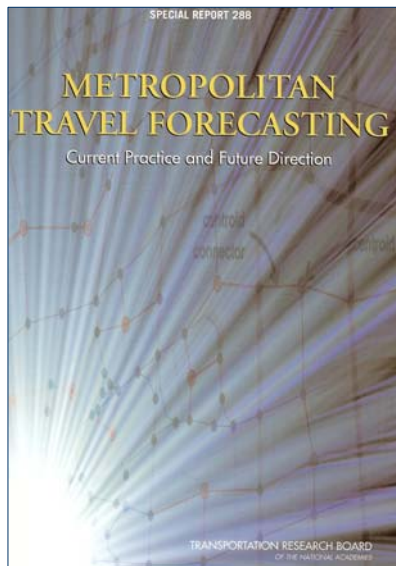
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Reporting

- Annual Average Daily Traffic (AADT)
- Vehicle Volume Data
- Vehicle Classification Data
- Adjustment Factors
- Various Summary Reports
 - Daily
 - Weekly
 - Annual
 - By direction, by lane



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<http://TRBcensus.com>

ABJ30 Census for Transportation
Planning Subcommittee,
ABJ30(1)

ADB00 Metropolitan Travel
Forecasting: Current
Practice and Future
Direction--A Report of the
Transportation Research
Board of the National
Academies

Data is an issue

But what data?



You need to help us make the case for data

Ed Christopher
FHWA Resource Center
708-283-3534
edc@EdTheFed.com